(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 3 June 2004 (03.06.2004)

PCT

(10) International Publication Number WO 2004/045392 A2

(51) International Patent Classification7:

A61B

(21) International Application Number:

PCT/US2003/037434

(22) International Filing Date:

20 November 2003 (20.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/428,033

20 November 2002 (20.11.2002) US

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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US03/37434

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G01N 33/53 US CL : 435/7.1, 7.94; 436/506, 513 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED								
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/7.1, 7.94; 436/506, 513								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)								
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category *	Citation of document, with indication, where a		Relevant to claim No.					
Y	US 6,319,726 B1 (Schuppan et al.) 20 November 20	12-28						
Y	on using antibody to detect tTG transglutaminase. US 2001/0036639 A1 (FINE) 01 November 2001 (0.	12-28						
Y	WO 200125793 A2 (ISIS INNOVATION LIMITED) 12 April 2001(12.04.2001), abstract, similar methodology using gliadin derived peptide to detect celiac sprue disease, albeit no homology (74%) compared to SEQ ID No. 12 of the instant invention.							
Further	documents are listed in the continuation of Box C.	L S	ee patent family annex.					
* S ₁	pecial categories of cited documents:		ater document published after the inte- late and not in conflict with the applic					
	"A" document defining the general state of the art which is not considered to be of particular relevance		principle or theory underlying the invention document of particular relevance; the claimed invention cannot be					
	plication or patent published on or after the international filing date	C	onsidered novel or cannot be consider when the document is taken alone	red to involve an inventive step				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination						
"O" document referring to an oral disclosure, use, exhibition or other means			eing obvious to a person skilled in the	e art				
	published prior to the international filing date but later than the ate claimed	"&" document member of the same patent family						
Date of the actual completion of the international search			hing of the interpational search	ch report				
	4 (27.04.2004)	Aythorized	offered A					
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents			Particular Junior Gor					
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230			Telephone No. 571-272-0814					

Form PCT/ISA/210 (second sheet) (July 1998)



Internation pplication No.

PCT/US03/37434

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)					
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
2. Claim Nos.: 1-11 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Please See Continuation Sheet					
3. Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows:					
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.					
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite					
payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:					
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:					
Remark on Protest The additional search fees were accompanied by the applicant's protest.					
No protest accompanied the payment of additional search fees.					

Continuation of Box I Reason 2: Claim 1, directs to a purified gluent oligopeptide, having the formula:									
E1-X1-E2-X2-E3 Xn-Ey.									
Where E1, E2 and E3 are independently selected epitopes from SEQ ID No. 10, 18-25. X1 and X2 are independently selected from the group consisting of a peptide bond and at least one amino acid, $n=0.5$, and $y=0.5$.									
With such a complicated structure, it is estimated that there are at least more than 10000 different combination. It imposes an undue burden for sequence search. Therefore, the current search is conducted only for claims 12-28.									
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